


**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A telecommunication method using a network including at least two network elements; the method comprising the steps of:

~~providing a network including at least two network elements;~~

 broadcasting data over the network by a first network element;

indicating the resources of the first network element available for sharing, within the data;

requesting the use of at least part of the available resources of the first network element by a second network element;

negotiating a cost for the resources by the first and second network elements;


executing a task by co-operation of the first and second network elements; and

releasing the resources of the first network element by the second network element upon completion of the task.

2. (Canceled)

3. (Original) A method according to claim 1, including the step of providing the network in the form of a wide band short range wireless network.

4. (Original) A method according to claim 1, including the step of providing at least one of the network elements in the form of a mobile device.

 5. (Original) A method according to claim 1, including the step of providing geographically distributed wireless base stations.

6. (Original) A method according to claim 1, including the step of providing the network in the form of a piconet.

7. (Original) A method according to claim 1, including the step of providing at least any one of the following as the resource to be shared:

memory;

a network connection;

processing power;

power source; or

a cheap connection.

8. (Canceled)

a 9. (Currently Amended) A network comprising first and second network elements, the first network element having broadcast means adapted to broadcast data indicative of resources of the first network element available for sharing, the second network element having communication means adapted to request at least some of said available resources, the first and second network elements being adapted to execute a task, co-operatively utilizing said resources, and to complete a task at the first network element by using resources at the second network element.

10. (Original) A network according to claim 9 wherein the network is a wireless network.

11. (Original) A network according to claim 9 wherein the network is a wide bandwidth short range wireless network.

12. (Original) A network according to claim 9 wherein the first and second network elements may be, respectively, any one of:

a personal digital assistant;

a pc;  
a laptop computer;  
a mobile telephone;  
a router;  
a server;  
a regenerative repeater;  
a multiplexer; or  
a codec.

13. (Original) A network according to claim 9 wherein the resource for sharing is any one of:

memory;  
storage capacity;  
network connections; or  
a connection to a public land mobile network.

14. (Currently Amended) A network resource sharing protocol including:

a discovery phase;  
a negotiation phase; and  
a ~~fulfilment~~ fulfillment phase;  
the negotiation phase including an agreement of a cost for the use of shareable resources of a first network element by a second network element.

15. (Currently Amended) A protocol according to claim 14, wherein the discovery phase includes a first network element for broadcasting a notification of its shareable resources over a network.

16. (Currently Amended) A protocol according to claim 14, wherein the negotiation phase includes a second network element for requesting at least some shareable resources of a first network element.

17. (Canceled)

W 18. (Currently Amended) A protocol according to claim 14 wherein the ~~fulfilment~~ fulfillment phase may include the co-operative execution of a task by first and second network elements.


19. (Currently Amended) A protocol according to claim 14 wherein the ~~fulfilment~~ fulfillment phase includes the execution of a task by a first network element and the passing of a result of the task to a second network element.

20. (Currently Amended) A protocol according to claim 14 wherein the ~~fulfilment~~ fulfillment phase includes the termination of communication between first and second network elements.

W 21. (New) A first network element for use in a

telecommunication network including the first network element and a second network element arranged for (a) issuing requests to the first network element and (b) sending the requests to the first network element via the telecommunication network, the first network element comprising:

a transmitter/receiver for broadcasting and receiving data over the network; and

 a processor arrangement connected to interact with the transmitter/receiver for (a) indicating resources of the first network element available for sharing, within the data, (b) receiving a request by the second network element for use of at least part of the available resources of the first network element by the second network element, (c) enabling the first network element to cooperate with the second network element to negotiate a cost for the resources, and (d) releasing the resources of the first network element upon completion of the task in response to a request by the second network element.

22. (New) A method of operating a first network element of a telecommunication network including the first network element and a second network element arranged for (a) issuing requests to the first network element and (b) sending the requests to the first network element via the telecommunication network, the operating method of the first network element

comprising:

broadcasting data over the network;

indicating resources of the first network element available for sharing, within the data;

receiving a request, via the network, by the second network element for use of at least part of the available resources of the first network element by the second network element;

negotiating a cost for the resources by cooperating with the second network element; and

releasing the resources of the first network element upon completion of the task in response to a request received by the first network element, via the network, as transmitted by the second network element.

23. (New) A second network element for use in a telecommunication network including a first network element and the second network element, the first network element being arranged for (a) broadcasting data over the network, (b) indicating resources of the first network element available for sharing, within the data, (c) releasing the resources of the first network element upon completion of the task in response to a request by the second network element, the second network element comprising:

a transmitter/receiver for broadcasting and receiving data

over the network; and

a processor arrangement connected to interact with the transmitter/receiver for (a) causing transmission via the network to the first network element of a request for the use of at least part of the available resources of the first network element, (b) causing the second network element to cooperate with the first network element to negotiate a cost for the resources, and (c) causing transmission via the network to the first network element for release of the resources of the first network element upon completion of the task.

24. (New) A method of operating a second network element of a telecommunication network including a first network element and the second network element, the first network element being arranged for (a) broadcasting data over the network, (b) indicating resources of the first network element available for sharing, within the data, and (c) releasing the resources of the first network element upon completion of the task in response to a request by the second network element, the method of operating the second network element comprising:

sending, via the network, to the first network element a request for use of at least part of the available resources of the first network element;

negotiating a cost for the resources by cooperating with



the first network element; and

sending, via the network, to the first network element a release of the resources of the first network element upon completion of the task.

25. (New) A telecommunication method using a network including at least two network elements; the method comprising the steps of:

broadcasting data over the network by a first network element;

*an* indicating the resources of the first network element available for sharing, within the data;

requesting the use of at least part of the available resources of the first network element by a second network element;

executing a task by co-operation of the first and second network elements;

releasing the resources of the first network element by the second network element upon completion of the task; and

completing the task at the first network element by using resources at the second network element.

26. (New) A method according to claim 25, including the step of providing the network in the form of a wide band short

range wireless network.

27. (New) A method according to claim 25, including the step of providing at least one of the network elements in the form of a mobile device.

28. (New) A method according to claim 25, including the step of providing geographically distributed wireless base stations.

an 29. (New) A method according to claim 25, including the step of providing the network in the form of a piconet.

30. (New) A method according to claim 25, including the step of providing at least any one of the following as the resource to be shared:

memory;  
a network connection;  
processing power;  
power source; or  
a cheap connection.

31. (New) A first network element for use in a telecommunication network including the first network element and a second network element arranged for (a) issuing requests

to the first network element and (b) sending the requests to the first network element via the telecommunication network, the first network element comprising:

a transmitter/receiver for broadcasting and receiving data over the network; and

a processor arrangement connected to interact with the transmitter/receiver for (a) indicating resources of the first network element available for sharing, within the data, (b) receiving a request by the second network element for use of at least part of the available resources of the first network element by the second network element, (c) causing the first network element to cooperate with the second network element to execute a task, (d) releasing the resources of the first network element upon completion of the task in response to a request by the second network element, and (e) completing the task at the first network element by using resources at the second network element.

32. (New) A method of operating a first network element of a telecommunication network including the first network element and a second network element arranged for (a) issuing requests to the first network element and (b) sending the requests to the first network element via the telecommunication network, the operating method of the first network element

comprising:

broadcasting data over the network;

indicating resources of the first network element available for sharing, within the data;

receiving a request, via the network, by the second network element for use of at least part of the available resources of the first network element by the second network element;

executing a task by cooperating with the second network element;

AR releasing the resources of the first network element upon completion of the task in response to a request received by the first network element, via the network, as transmitted by the second network element; and

completing the task at the first network element by using resources at the second network element.

33. (New) A second network element for use in a telecommunication network including a first network element and the second network element, the first network element being arranged for (a) broadcasting data over the network, (b) indicating resources of the first network element available for sharing, within the data, (c) releasing the resources of the first network element upon completion of the task in response to a request by the second network element, the second network

element comprising:


a transmitter/receiver for broadcasting and receiving data over the network; and

a processor arrangement connected to interact with the transmitter/receiver for (a) causing transmission via the network to the first network element of a request for the use of at least part of the available resources of the first network element, (b) causing the second network element to cooperate with the first network element to execute a task, (c) causing transmission via the network to the first network element for release of the resources of the first network element upon completion of the task, and (d) causing resources at the second network element to be used for completing the task at the first network element.

34. (New) A method of operating a second network element of a telecommunication network including the first network element and the second network element, the first network element being arranged for (a) broadcasting data over the network, (b) indicating resources of the first network element available for sharing, within the data, and (c) releasing the resources of the first network element upon completion of the task in response to a request by the second network element, the method of operating the second network element comprising:

sending, via the network, to the first network element a request for the use of at least part of the available resources of the first network element;

executing a task by cooperating with the first network element;

 sending, via the network, to the first network element a release of the resources of the first network element upon completion of the task; and

completing the task at the first network element by using resources at the second network element.

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